

1754



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

JACOBSON ET AL.

CASE NO.: CH2714 US NA

#41a
WB
3/25/03

SERIAL NO.: 09/848,896

GROUP ART UNIT: 1754

10 FILED: MAY 4, 2001

EXAMINER: T. VANOVY

FOR: SULFUR TRIOXIDE DELIVERY
SYSTEMAMENDMENT15 Assistant Commissioner for Patents
Washington, DC 20231

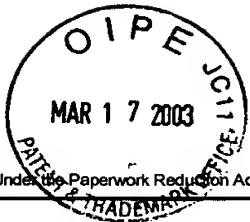
Sir:

20 In response to the Office Action dated December 13, 2002, please
amend the above-referenced application as follows:IN THE CLAIMS~~Please cancel claim 2 and amend claims 1 and 8 as follows:~~

- Sub B1*
1. (Amended) A process for reversible sorption of sulfur trioxide onto a sorbent comprising a) contacting from about 15% to 100% sulfur trioxide in an inert gas with the sorbent under anhydrous conditions at a temperature of from about 35°C to about 150°C thereby sorbing the sulfur trioxide onto the sorbent which sorbent is then capable of storage, b) desorbing sulfur trioxide from the sorbent at a temperature of from about 150°C to about 350°C at about atmospheric pressure, or under a vacuum pressure, and c) recycling said sorbent by continuously repeating steps a) and b), wherein said sorbent has structural stability upon recycle, a pore size of at least 0.5 nm, and consists essentially of silica or zeolite, said zeolite having a silicon to aluminum ratio greater than about 5.1.

- C1*
- 35 8. (Amended) A sorbent consisting essentially of silica or zeolite, said zeolite having a silicon to aluminum ratio greater than about 5.1, said sorbent having a pore size of at least 0.5 nm, and having adsorbed thereon a minimum of about 1% by weight sulfur trioxide.
- A2*
- Sub B1*

Fleming, C.E., n.r.m.



PTO/SB/92 (08-00)

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